SDCS-ER-76-99

SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Fox Islands, Aleutian Islands, 12 April 1976

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SDCS EVENT REPORT NO. 99

Fox Islands, Aleutian Islands, 12 April 1976

FOX ISLANDS, ALEUTIAN ISLANDS

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the ~~above~~ event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	04:52:41.6	04:42:06	55 N	169 W	5.0	N/A
Hagfors	04:52:45.6	04:42:01	55 N	172 W	5.3	4.9

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

04:41:44.5 51.9N 170.7W 5.5 5.0

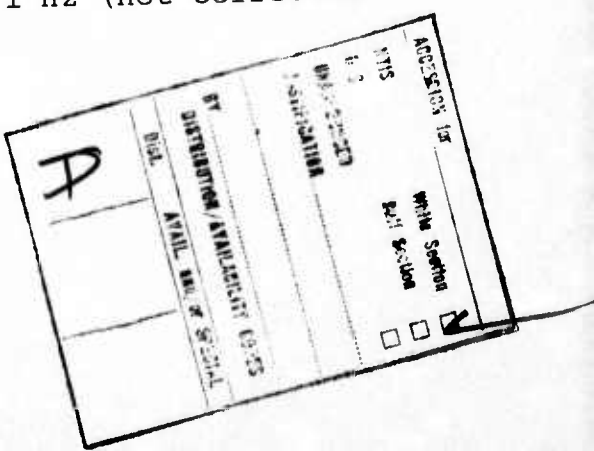
The programs used for LASA, NORSAR and ALPA data recovery are presently undergoing modifications. Information for LASA short-period is reported from their Teleseism Event Report; NORSAR short-period data are obtained from their bulletin. The long-period array beam recovery for these stations will be resumed upon completion of these modifications.

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR. All SP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal SP channels at all SDCS stations were rotated.

Long-period signals were recorded at all SDCS stations. All LP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Hroizontal LP channels at all SDCS stations were rotated.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).



STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	KS36000	KS36000
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

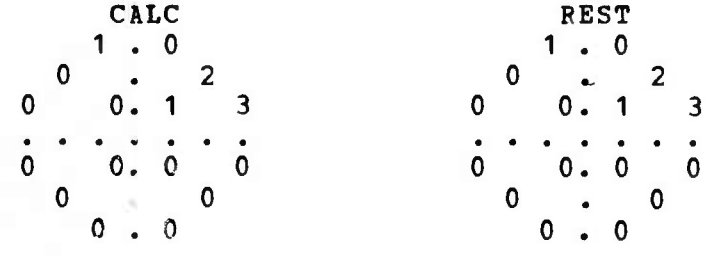
HYPOCENTER DETERMINATION

INPUT FOR EVENT 12 APR 76
04:42:06.0 55.000N 169.000W 0KM.

STA.	ARRIVAL	RESIDUALS CALC	RESIDUALS REST	DIST. REST	AZ. REST
WH2YK	04 46 33.4	-0.1	-0.0	21.5	51.9
LAO	04 49 30.5	0.7	0.9	41.2	70.8
RK-ON	04 50 07.6	-0.5	-0.6	46.0	59.3
CPSO	04 51 52.2	-0.8	-0.7	60.2	69.4
FN-WV	04 52 02.2	0.2	0.1	61.5	63.1
HN-ME	04 52 05.3	0.5	0.2	62.0	50.1
NAO	04 52 41.6	0.0	0.1	67.6	359.2

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
04:41:55.4	52.218N	170.405W	69. CALC	0.5	4	7
04:41:44.5	51.918N	170.746W	0. REST	0.5	3	7



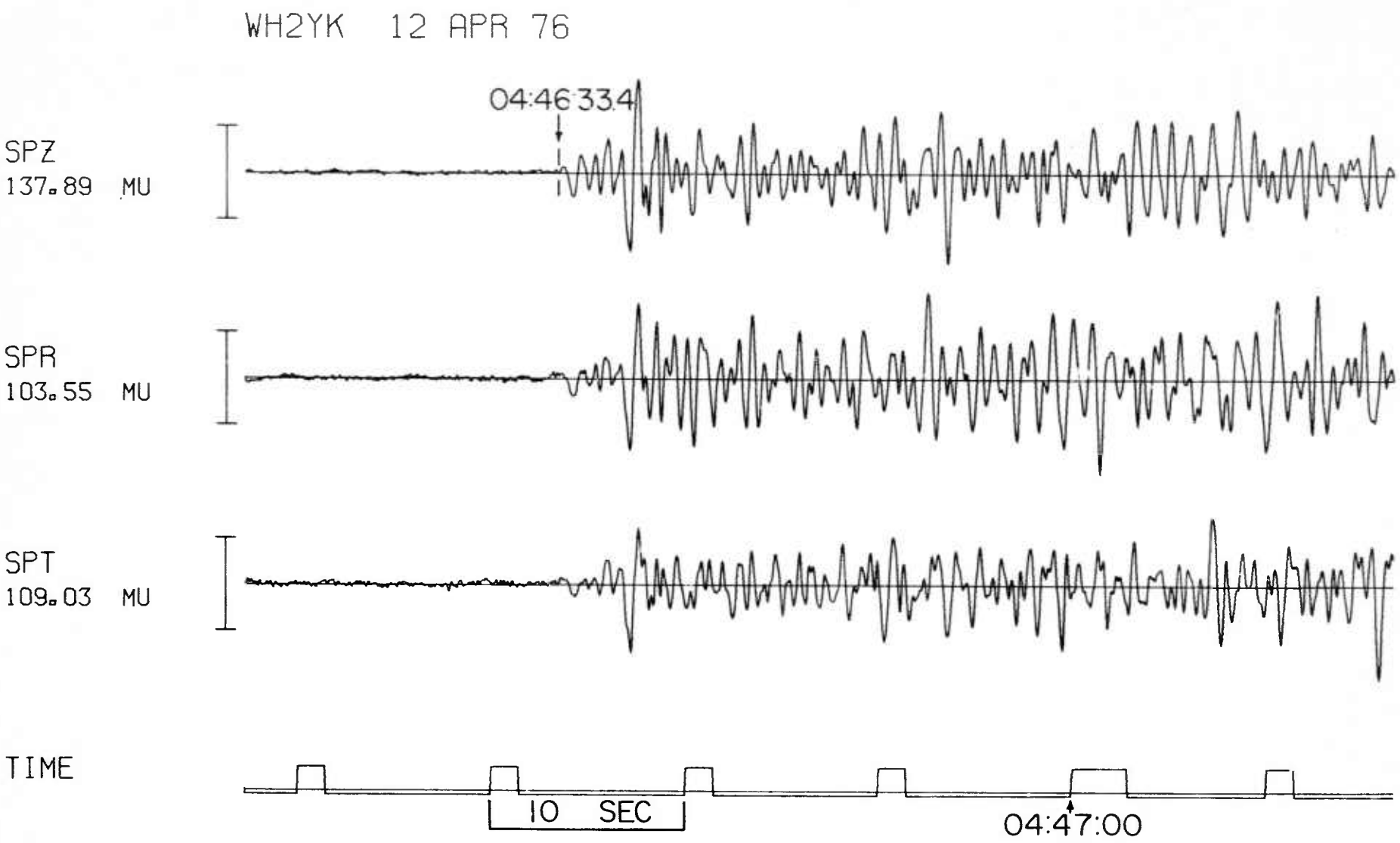
CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.15
MAJOR 86.2KM. MINOR 44.1KM. AZ= 19 AREA= 11936 SQ.KM. REST

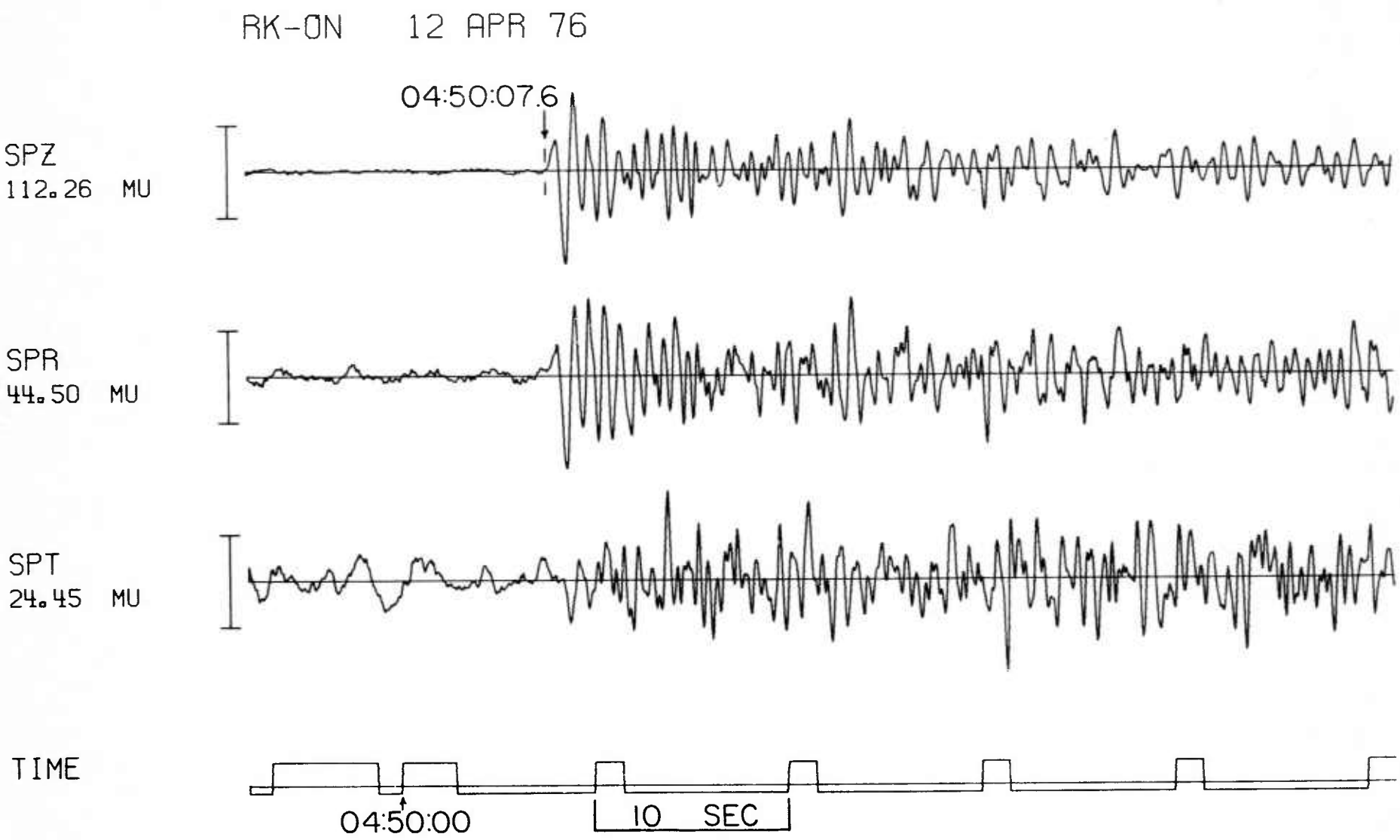
DATA SUMMARY

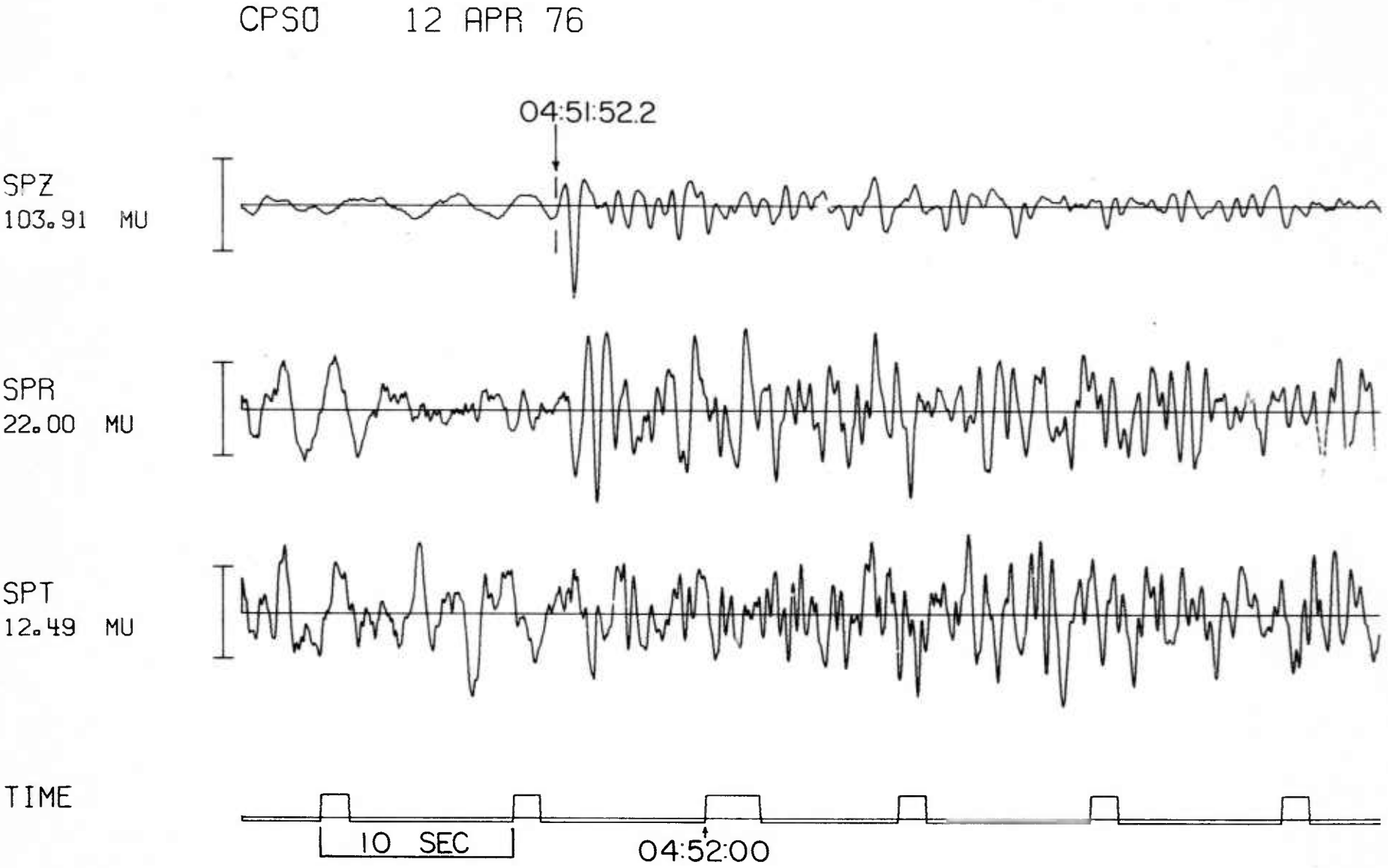
INPUT FOR EVENT 12 APR 76
04:42:06.0 55.000N 169.000W 0KM.

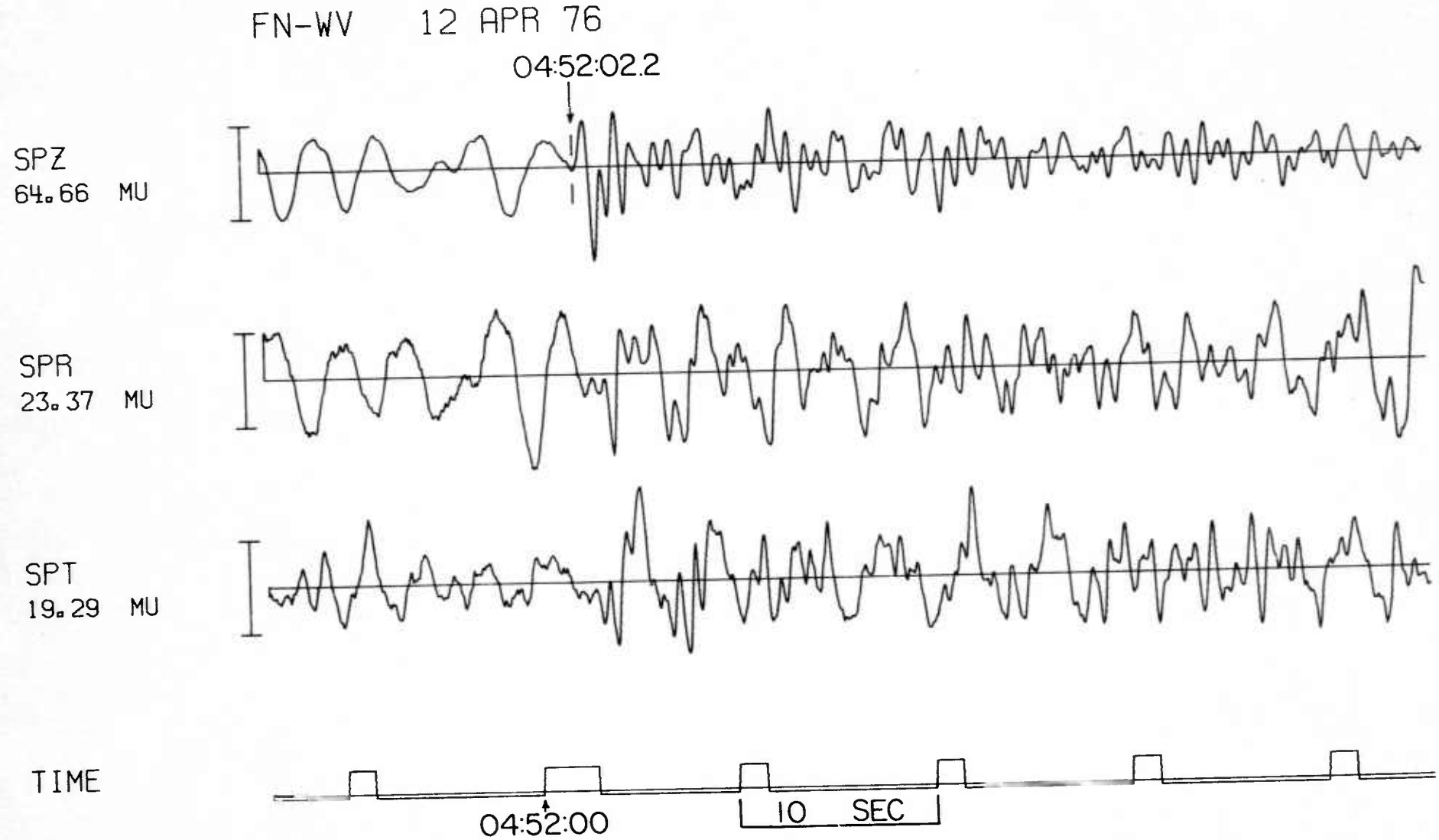
STA.	PHASE	ARRIVAL TIME	INST	PER	A/T	MAGNITUDE MB	MS	DIR	DIST
WH2YK	EP	04 46 33.4	SPZ	0.8	193.	5.13			21.5
WH2YK	LQ	04 54 06.0	LPT	27.0	285.				
WH2YK	LR	04 56 20.0	LPZ	17.0	220.		4.79		21.5
LAO	EP	04 49 30.5	SAB	99.9	9999.				
RK-ON	EP	04 50 07.6	SPZ	1.0	207.	5.81			46.0
RK-ON	LQ	05 06 39.0	LPT	24.0	92.				
RK-ON	LR	05 08 53.0	LPZ	21.0	122.		4.87		46.0
CPSO	EP	04 51 52.2	SPZ	0.9	131.	5.63			60.2
CPSO	LQ	05 11 51.0	LPT	25.0	52.				
CPSO	LR	05 15 25.0	LPZ	23.0	141.		5.05		60.2
FN-WV	EP	04 52 02.2	SPZ	0.9	83.	5.57			61.5
FN-WV	LQ	05 16 01.0	LPT	23.0	36.				
FN-WV	LR	05 20 31.0	LPZ	20.0	206.		5.22		61.5
HN-ME	EP	04 52 05.3	SPZ	0.9	67.	5.53			62.0
HN-ME	LQ	05 16 28.0	LPT	20.0	276.				
HN-ME	LR	05 20 00.0	LPZ	20.0	223.		5.26		62.0
NAO	EP	04 52 41.6	AB	1.2	41.	5.31			67.6

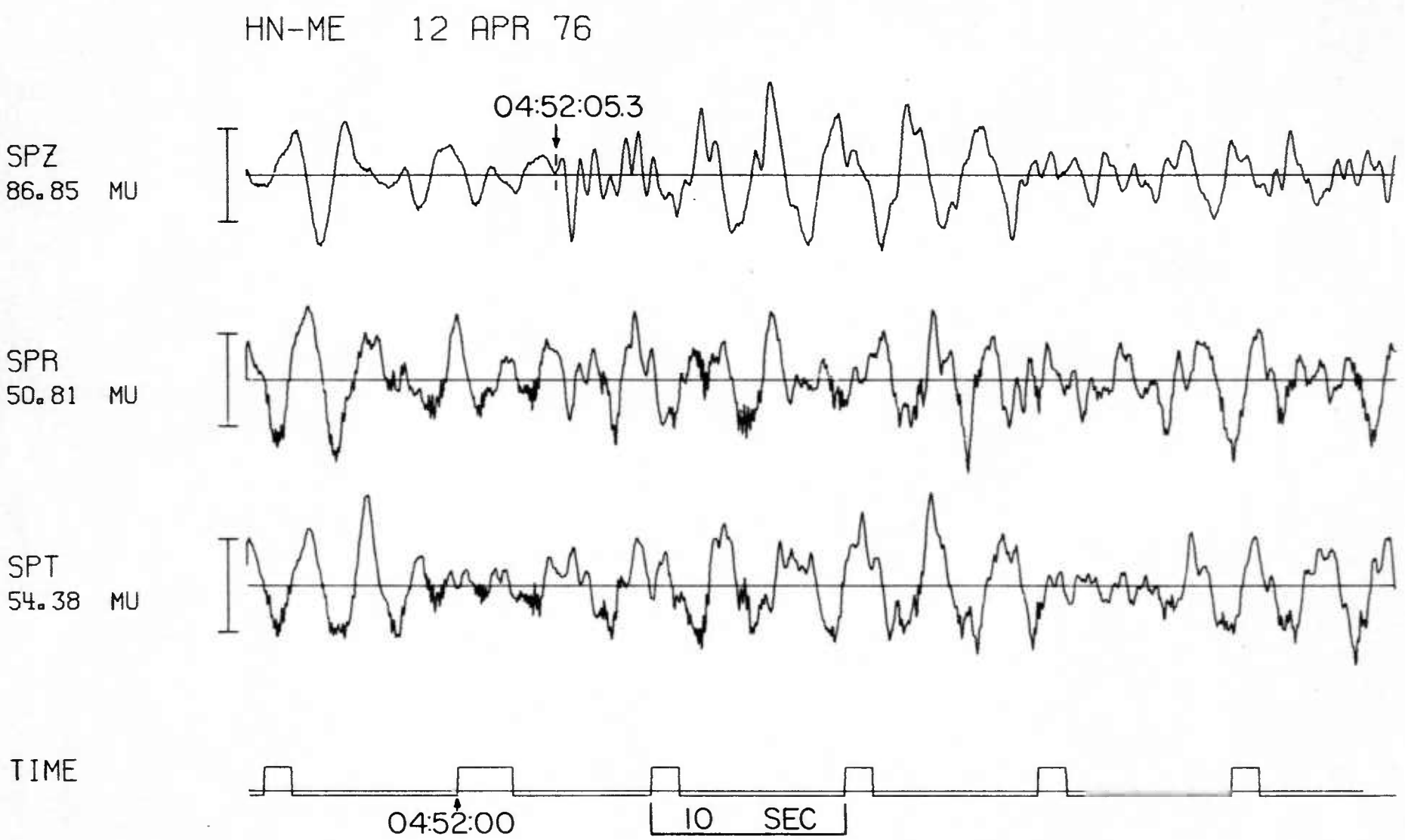
ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
04:41:55.4	52.218N	170.405W	69. CALC	5.39	0.26	6	5.04	0.2	5
04:41:44.5	51.918N	170.746W	0. REST	5.50	0.24	6	5.04	0.2	5

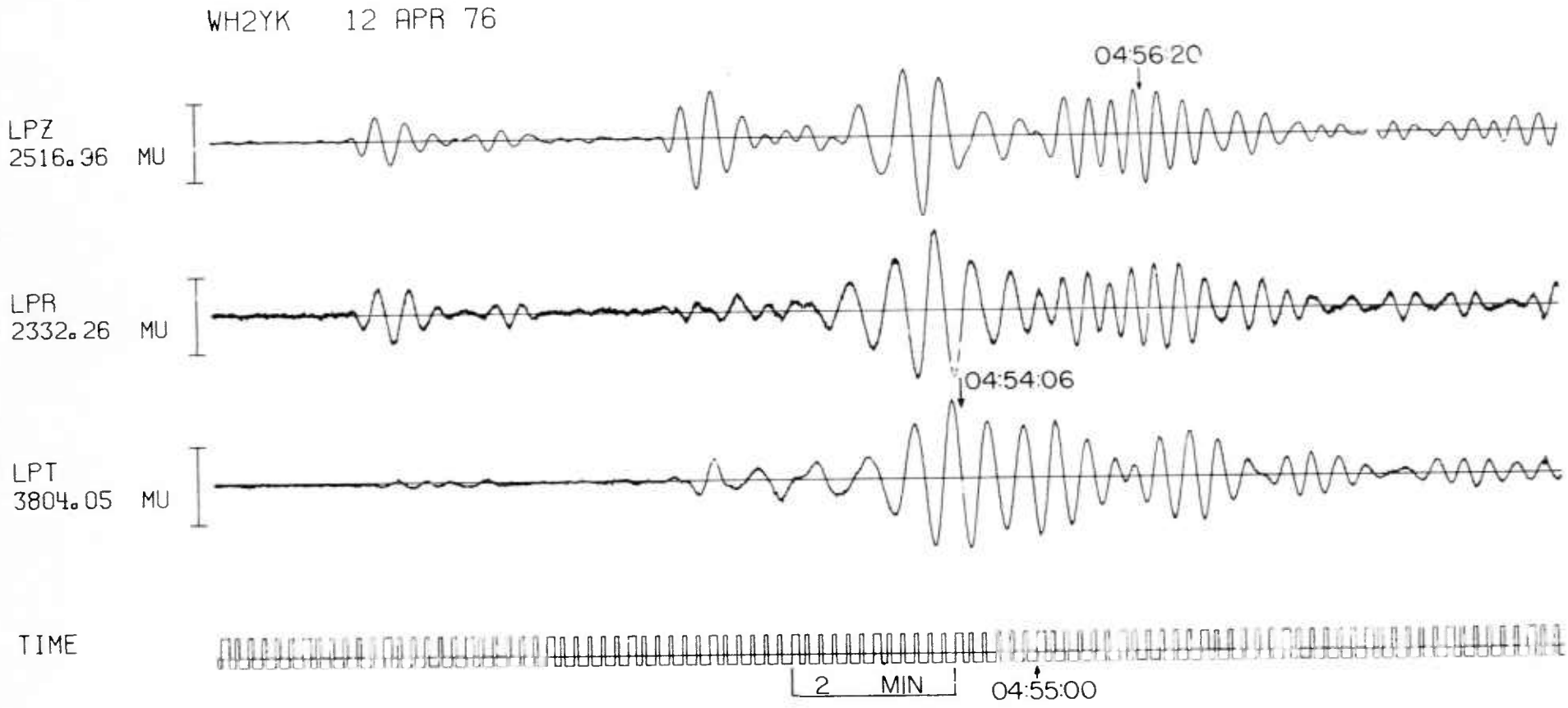

WH2YK 12 APR 76
04:46:33.4
SPZ
137.89 MU
SPR
103.55 MU
SPT
109.03 MU
TIME
10 SEC
04:47:00

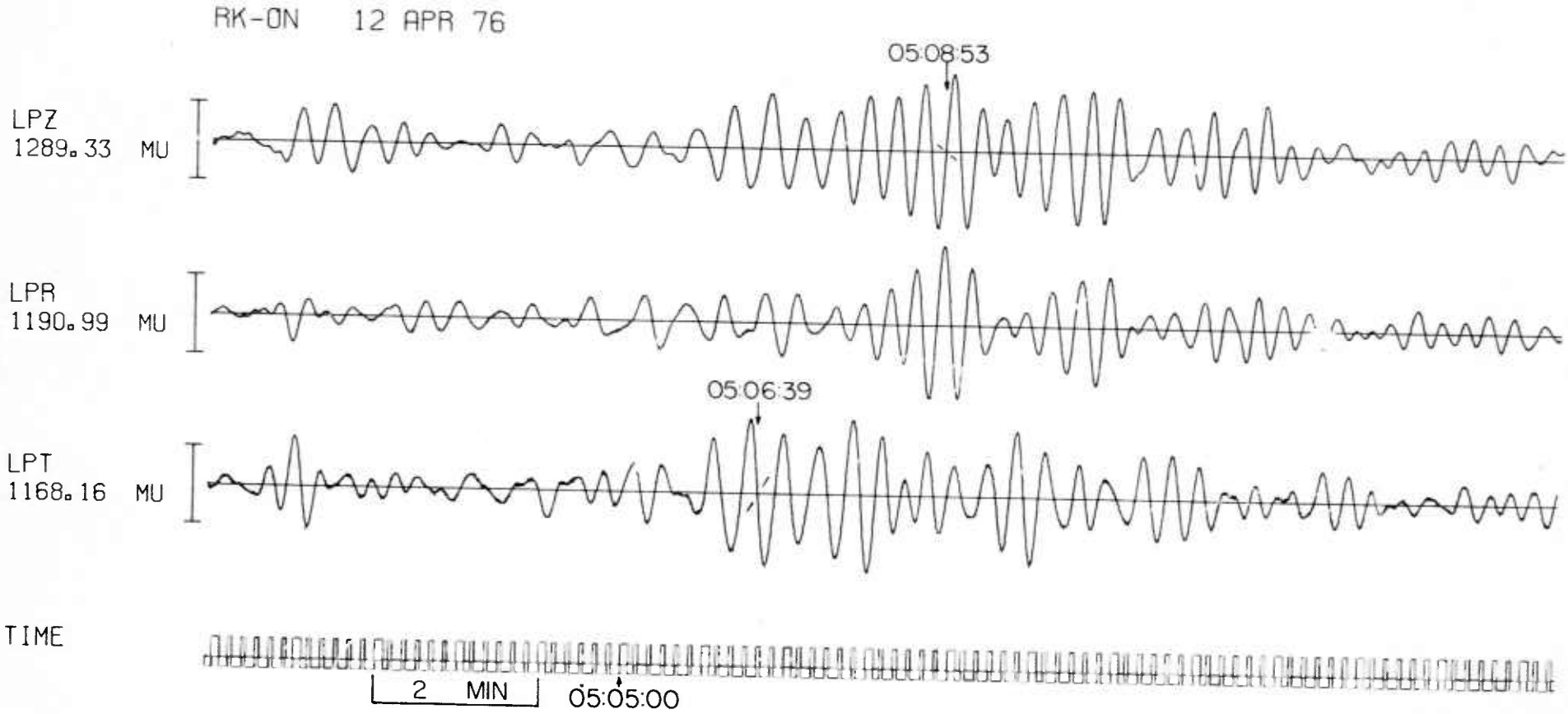

RK-ON 12 APR 76
04:50:07.6
SPZ
112.26 MU
SPR
44.50 MU
SPT
24.45 MU
TIME
04:50:00
10 SEC

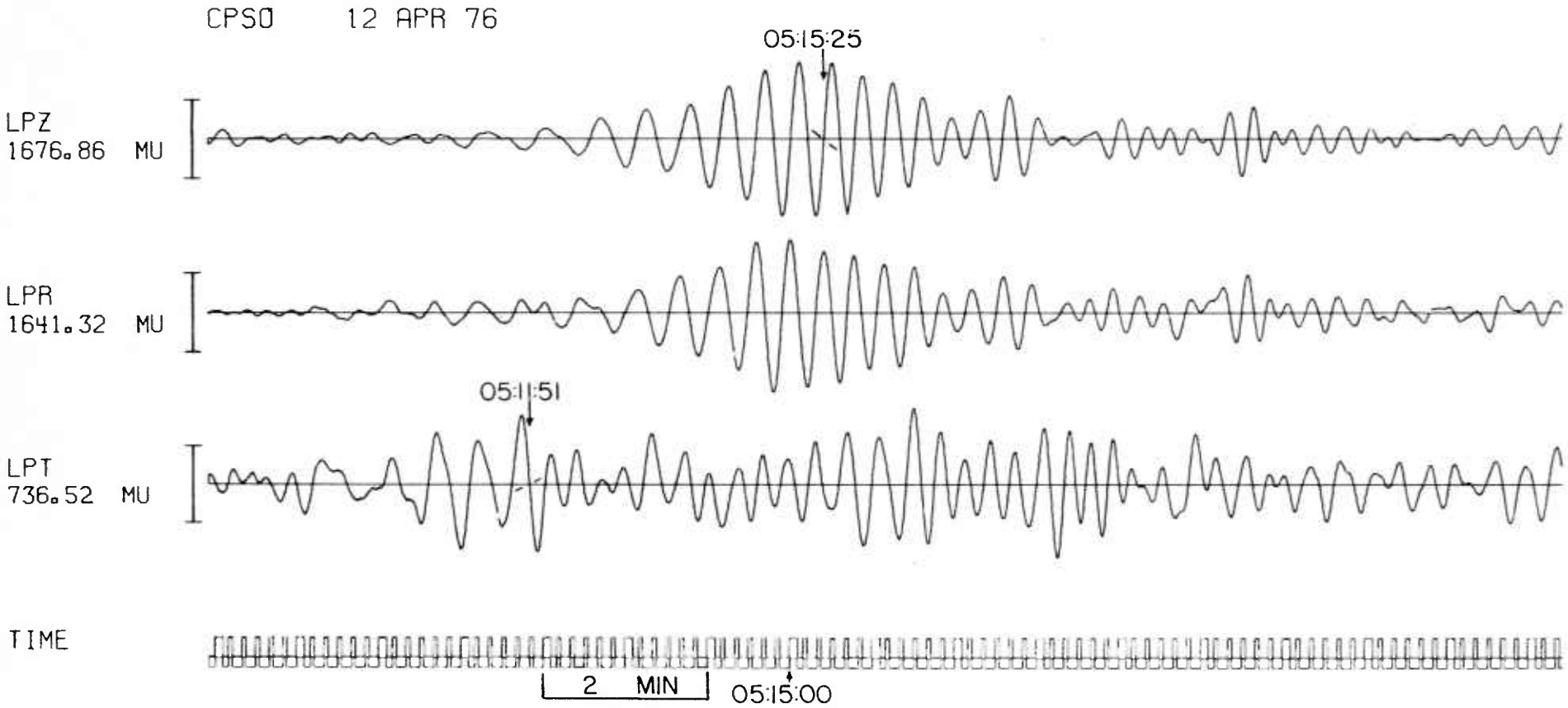

CPSO 12 APR 76
04:51:52.2
SPZ
103.91 MU
SPR
22.00 MU
SPT
12.49 MU
TIME
10 SEC
04:52:00

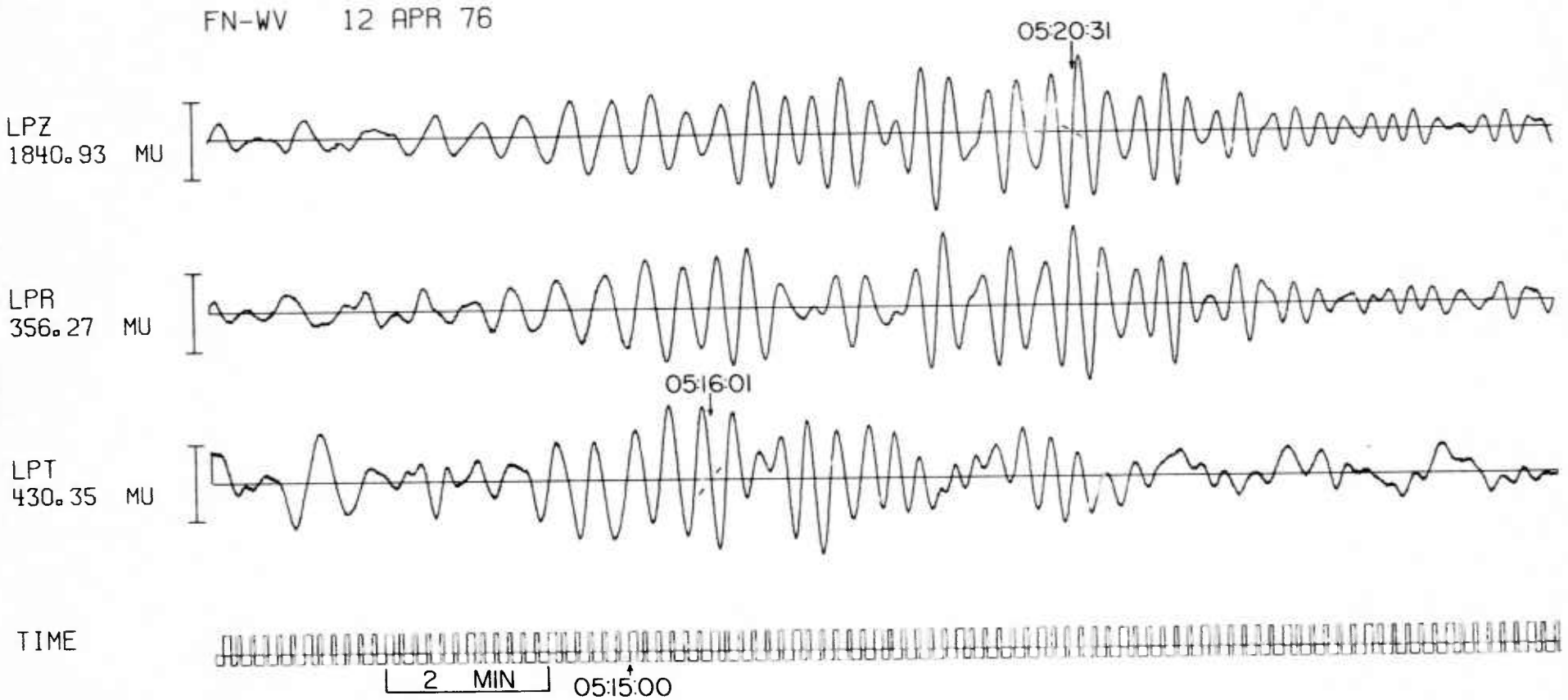

FN-WV 12 APR 76
04:52:02.2
SPZ
64.66 MU
SPR
23.37 MU
SPT
19.29 MU
TIME
04:52:00
10 SEC

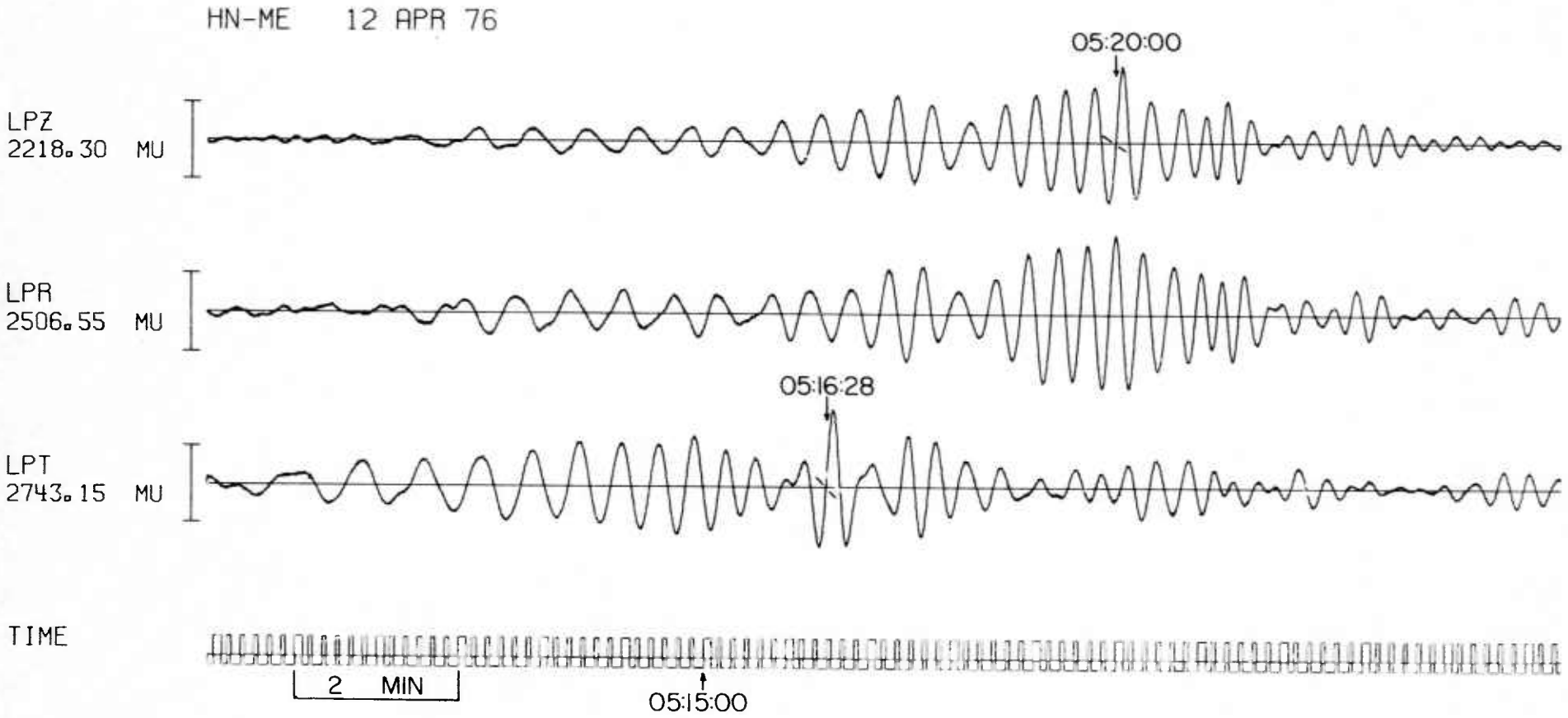

HN-ME 12 APR 76
04:52:05.3
SPZ
86.85 MU
SPR
50.81 MU
SPT
54.38 MU
TIME
04:52:00
10 SEC


WH2YK 12 APR 76
04:56:20
LPZ
2516.96 MU
LPR
2332.26 MU
04:54:06
LPT
3804.05 MU
TIME
2 MIN
04:55:00


RK-ON 12 APR 76
05:08:53
LPZ
1289.33 MU
LPR
1190.99 MU
05:06:39
LPT
1168.16 MU
TIME
2 MIN
05:05:00


CPSO 12 APR 76
05:15:25
LPZ
1676.86 MU
LPR
1641.32 MU
05:11:51
LPT
736.52 MU
TIME
2 MIN
05:15:00


FN-WV 12 APR 76
05:20:31
LPZ
1840.93 MU
LPR
356.27 MU
05:16:01
LPT
430.35 MU
TIME
2 MIN
05:15:00


HN-ME 12 APR 76
05:20:00
LPZ
2218.30 MU
LPR
2506.55 MU
05:16:28
LPT
2743.15 MU
TIME
2 MIN
05:15:00